

CONSISTENT ASSIGNMENT OF UNAMBIGUOUS INDICES TO OBJECTS

Abstract of the Disclosure

Consistent and unambiguous pattern sorting and assignment of indices to clustered K objects in a multidimensional space. The dispersion along each dimension is calculated and the order of dimensions by which the sort sequence is arranged corresponds to the inverse order of the dispersion values. For each dimension, unsorted objects are grouped and arranged according to coordinate values. The sort sequence, i.e., assignment of indices, is performed by comparing the coordinate value in successive dimensions of each object with its successor or its predecessor. If the magnitudes of the differences are less than one or more predetermined thresholds, the points are transferred to another array which is sorted along the next dimension. The groupings and index assignments continue until all objects have been assigned an index.